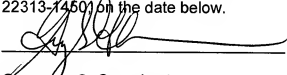


IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Ernest C. Chen : I hereby certify that this correspondence is
: being electronically filed with the United
Serial No.: 10/532,619 : States Patent and Trademark Office
371(c) Date: April 25, 2005 : addressed to:
: Mail Stop Amendment, Commissioner for
For: MAXIMIZING POWER AND : Patents, P. O. Box 1450, Alexandria, VA
SPECTRAL EFFICIENCIES FOR : 22313-1450 on the date below.
LAYERED AND CONVENTIONAL :
MODULATIONS :
: 
: Georgann S. Grunebach
: Typed or printed name of person signing certificate
Group Art Unit: 2611 :
Examiner: BAYARD, Emmanuel : Date: July 30, 2007

INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. § 1.97 (c)(2)
WITH FEE SET FORTH IN § 1.17(p)

Mail Stop Amendment
Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

The references cited on the enclosed form PTO/SB/08A may be relevant or material to the examination of the above-identified patent application and are, therefore, submitted in compliance with the duty of disclosure defined in 37 C.F.R. § 1.56.

This statement should be considered because it is submitted after the mailing date of a first Office action on-the-merits, but before the mailing of any of a final action under § 1.113, a notice of allowance under § 1.311, or an action that otherwise closes prosecution in the application.

In accordance with 37 C.F.R. § 1.97 (c)(2), submitted herewith is the fee set forth in 37 C.F.R. § 1.17(p) for submission of an information disclosure statement.

PAYMENT OF FEE SET FORTH IN §1.17(p)

Please charge Deposit Account No. 50-0383 of Hughes Electronics Corporation, El Segundo, California, in the amount of **\$180.00**. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to that account. **This form is being submitted in duplicate.**

This Information Disclosure Statement is not to be construed as a representation that a search has recently been made, that additional information material to the examination of this application does not exist, or that this citation constitutes prior art.

Respectfully submitted,

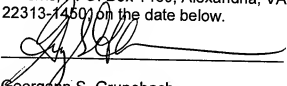
By: 

Georgann S. Grunebach, Reg. No. 33,179

The DIRECTV Group, Inc.
CA/LA1/A109
P. O. Box 956
El Segundo, CA 90245

Telephone No. (310) 964-4615

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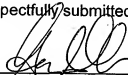
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Substitute for form PTO/SB/08A		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Application Number	10/532,619
		371(c) Filing Date	April 25, 2005
		First Named Inventor	Ernest C. Chen
		Art Unit	2611
		Examiner Name	BAYARD, Emmanuel
Date:	July 30, 2007		
Sheet 1 of 1	Attorney Docket Number	PD-201014	

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.	Document Number Number-Kind Code	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US-5,285,474	02-1994	Chow et al.	
		US-6,002,713	12-1999	Goldstein et al.	
		US-6,078,645	06-2000	Cai et al.	
		US-6,313,885	11-2001	Patel et al.	

U.S. PUBLICATION DOCUMENTS					
Examiner Initials*	Cite No.	Document Number Number-Kind Code	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US-2002/0009141	01-2002	Yamaguchi et al.	
		US-2002/0186761	12-2002	Corbaton et al.	
		US-2003/0171102	09-2003	Yang, Bin	
		US-2004/0013084	01-2004	Thomas et al.	
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		US-2006/0045191	03-2006	Vasanth et al.	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No.	Foreign Patent Document Country Code-Number-Kind Code	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	T
		EP 0115218	08-1984	Mitsubishi Petrochemical Co.	
		EP 1011245	06-2000	Matsushita Electric Ind. Co.	
		EP 1065854	01-2001	Tandberg Television ASA	
		WO 99/23718	05-1999	Motorola Inc.	
		WO 01/39455	05-2001	Thomson Licensing SA	
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		WO 2005/086444	09-2005	Thomson Licensing SA	
		KR 2001 0019997 (English abstract included)	03-2001	Hynix Semiconductor Inc.	

Examiner Signature	Date Considered
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.